

The Joint Research Centre

Presentation of the activities of the EU Joint Research Centre at the Croatian Infoday

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The European Commission's political leadership

 Ursula von der Leyen President	 Teresa Ribera Rodríguez Executive Vice-President <i>Clean, Just and Competitive Transition</i>	 Henna Virkkunen Executive Vice-President <i>Tech Sovereignty, Security and Democracy</i>	 Stéphane Séjourné Executive Vice-President <i>Prosperity and Industrial Strategy</i>	 Kaja Kallas High Representative/ Vice-President <i>Foreign Affairs and Security Policy</i>	 Roxana Minzatu Executive Vice-President <i>People, Skills and Preparedness</i>
 Raffaele Fitto Executive Vice-President <i>Cohesion and Reforms</i>	 Maroš Šefčovic Vice-President <i>Trade and Economic Security / Interinstitutional Relations and Transparency</i>	 Valdis Dombrovskis Commissioner <i>Economy and Productivity Implementation and Simplification</i>	 Dubravka Šuica Commissioner <i>Mediterranean</i>	 Olivér Várhelyi Commissioner <i>Health and Animal Welfare</i>	 Wopke Hoekstra Commissioner <i>Climate, Net Zero and Clean Growth</i>
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 Magnus Brunner Commissioner <i>Internal Affairs and Migration</i>	 Jessika Roswall Commissioner <i>Environment, Water Resilience and a Competitive Circular Economy</i>	 Piotr Serafin Commissioner <i>Budget, Anti-Fraud and Public Administration</i>	 Dan Jørgensen Commissioner <i>Energy and Housing</i>	 Ekaterina Zaharieva Commissioner <i>Startups, Research and Innovation</i>	 Michael McGrath Commissioner <i>Democracy, Justice and the Rule of Law</i>
 Apostolos Tzitzikostas Commissioner <i>Sustainable Transport and Tourism</i>	 Christophe Hansen Commissioner <i>Agriculture and Food</i>	 Glenn Micallef Commissioner <i>Intergenerational Fairness, Youth, Culture and Sport</i>			

Who we are - Science for policy

<https://www.youtube.com/watch?v=uF7uruvjAgg>



ANTICIPATE



INTEGRATE



IMPACT

Our mission

The JRC is the **scientific and knowledge service** of the European Commission and provides **independent, evidence-based knowledge and science**, supporting **EU policies** to positively impact society

The JRC's 25 portfolios are strongly linked with the 7 priorities of the European Commission

- A new plan for Europe's sustainable prosperity and competitiveness
- A new era for European defence and security
- Supporting people, strengthening our societies and our social model
- Sustaining our quality of life: Food security, water and nature
- Protecting our democracy, upholding our values
- A global Europe: Leveraging our power and partnerships
- Delivering together and preparing our Union for the future



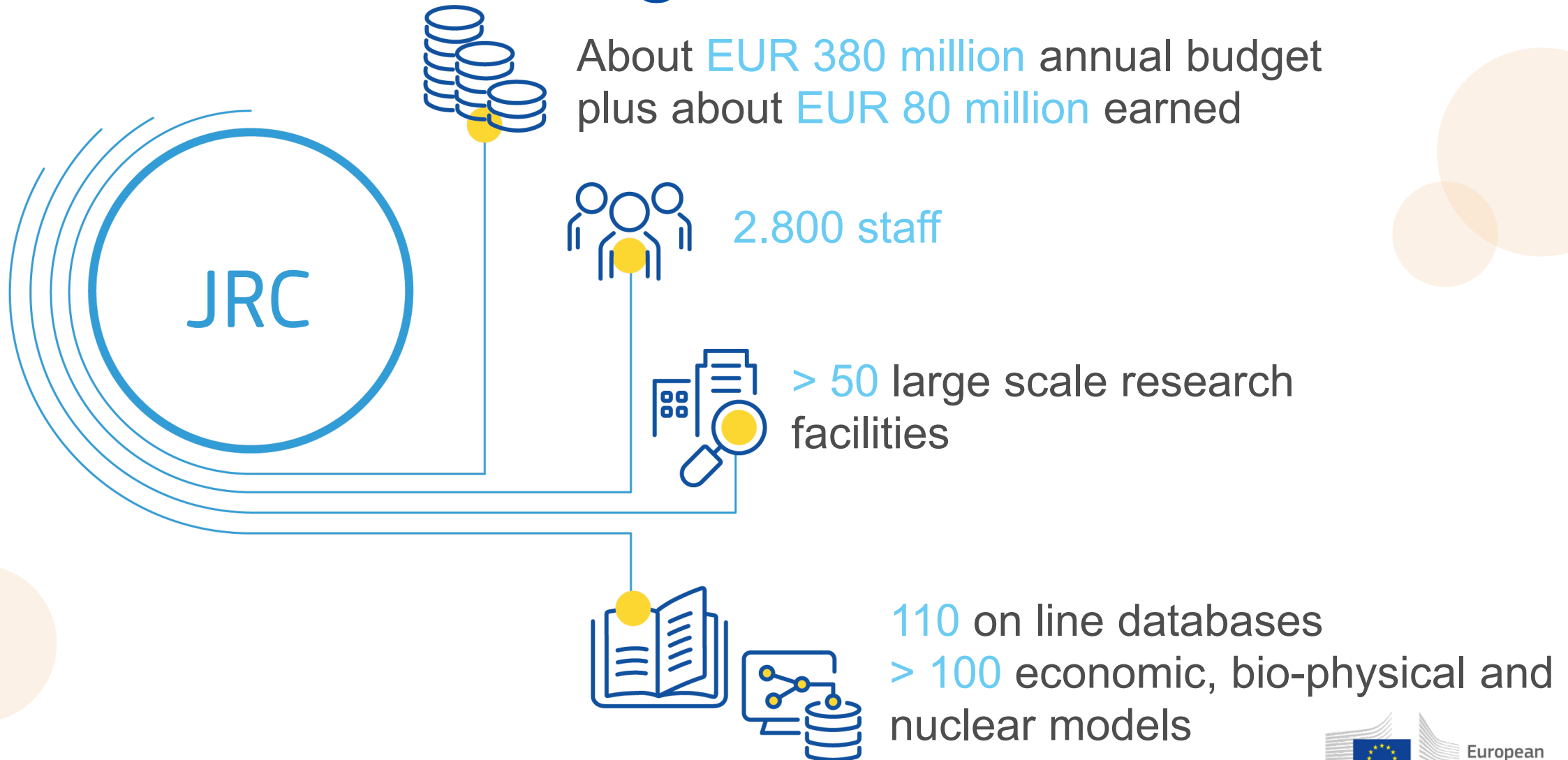
The JRC scientific sites

HQ in **Brussels**
Scientific sites in **5**
Member States:

- Belgium (Geel)
- Germany (Karlsruhe)
- Italia (Ispra)
- The Netherlands (Petten)
- Spain (Sevilla)



JRC – Facts and figures



JRC Newsletters

Joint Research Centre (JRC) - Newsletter

The Joint Research Centre provides independent, evidence-based knowledge and science, supporting EU policies to positively impact society

Science for policy

Latest updates

INCITE platform out for submission of clean technologies

First-of-its-kind information hub brings together EU industrial stakeholders to foster innovative technologies.



 [Main URL](#)

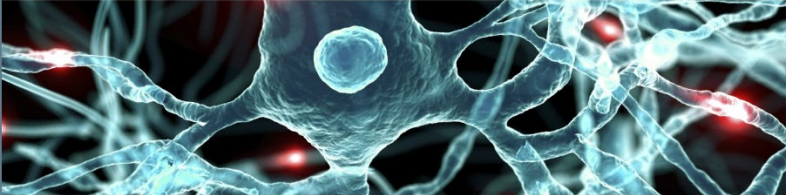
[more](#)

Leer la versión en línea

JRC - Centro Común de Investigación

Science Flash For You

España y el servicio de ciencia y conocimiento de la Comisión Europea



Síganos  

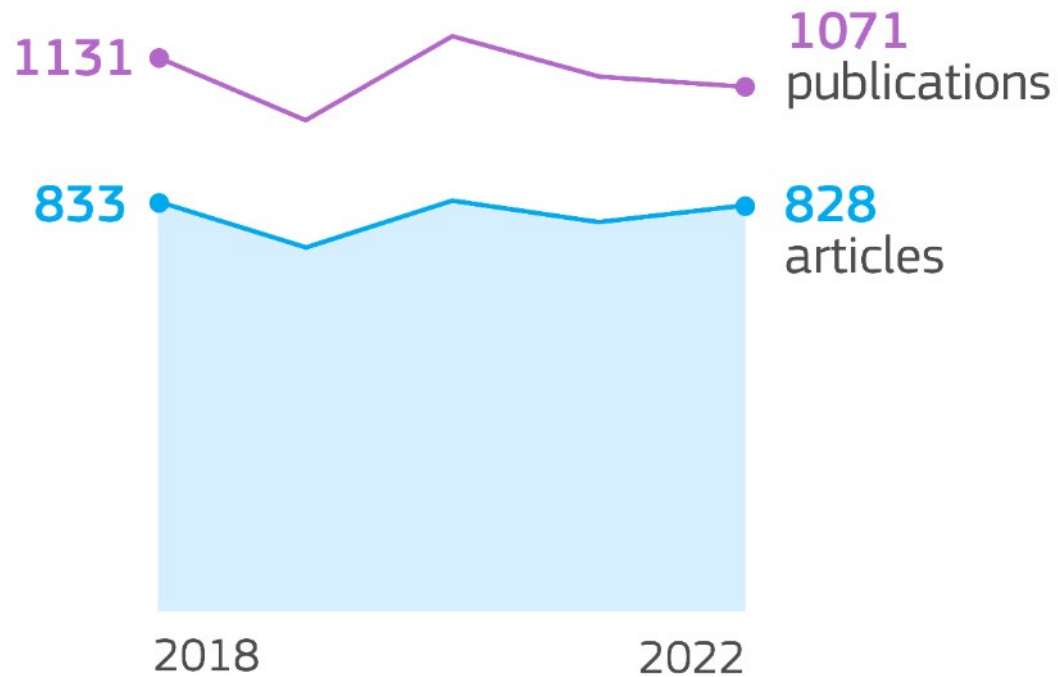
Noticias

El mayor incendio forestal registrado en 2023 en España tuvo lugar en Tenerife

[JRC Publications Repository - JRC Essentials](#)

Scientific excellence

JRC published 5468 peer-reviewed publications (2018-2022)

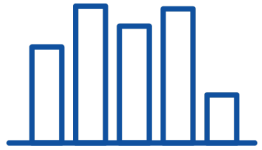


JRC PUBLISHES:

~1000 publications per year

~4 publications per working day

Impact on policy-making



Analysis of 2.800 reports on tangible effects on policymaking 2014-2020



70% implementing, monitoring and evaluating policy
30% preparation of policy



88% report use by other Commission departments



Increasing impact on central policy-making processes e.g., better regulation, instruments (e.g. European semester) and crisis response (COVID-19)

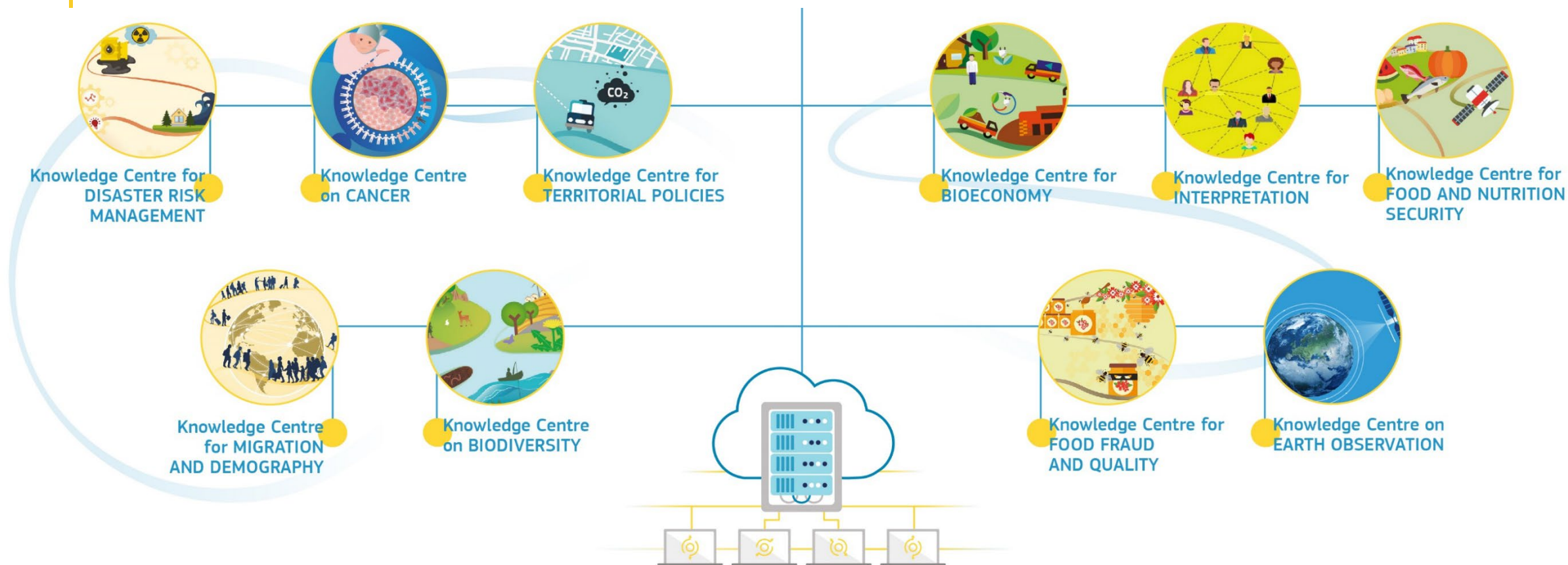
50

Case studies evaluated by independent experts

86% JRC instrumental for shaping and implementing policies & 14% moderate impact on policy-making

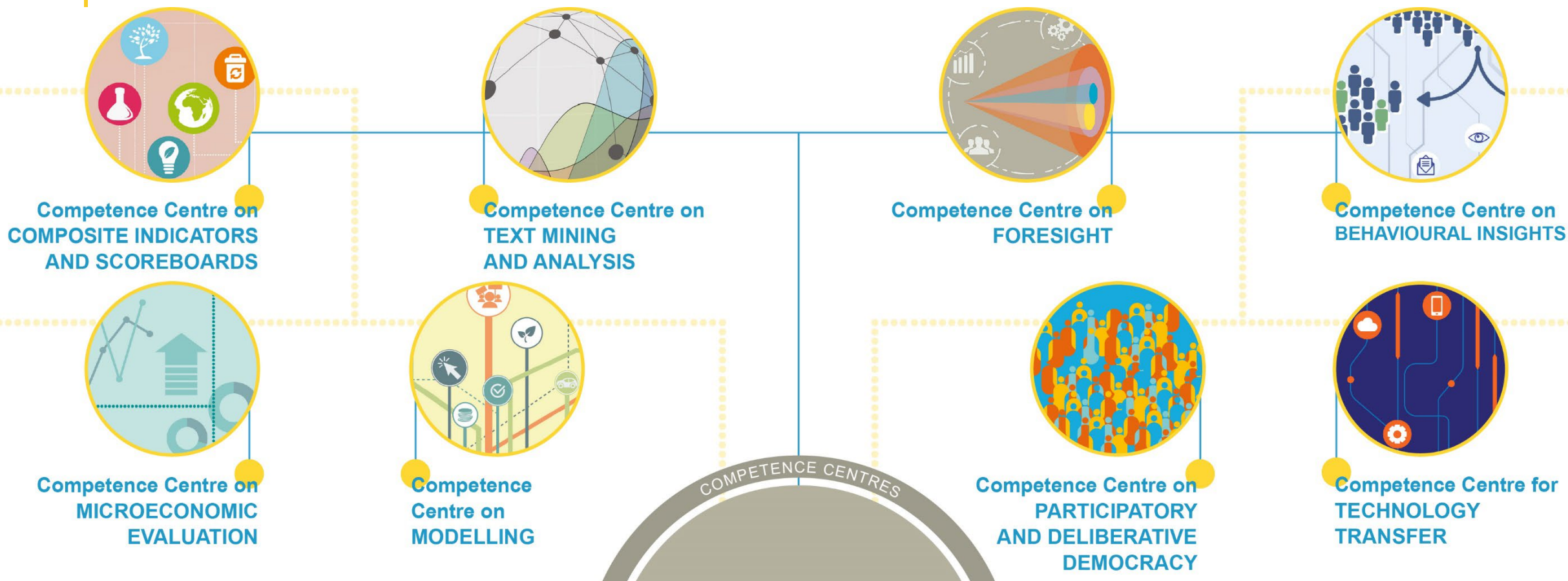
European Commission's Knowledge and Competence Centres

Knowledge Centres



These are **virtual entities**, bringing together **experts and knowledge from different locations inside and outside the EC**. Their job is to inform policy-makers in a transparent, tailored and concise manner about the status and findings of **the latest scientific evidence**. They are designed to be a 'one-stop-shop' in their respective areas and include communities of practice.

Competence Centres



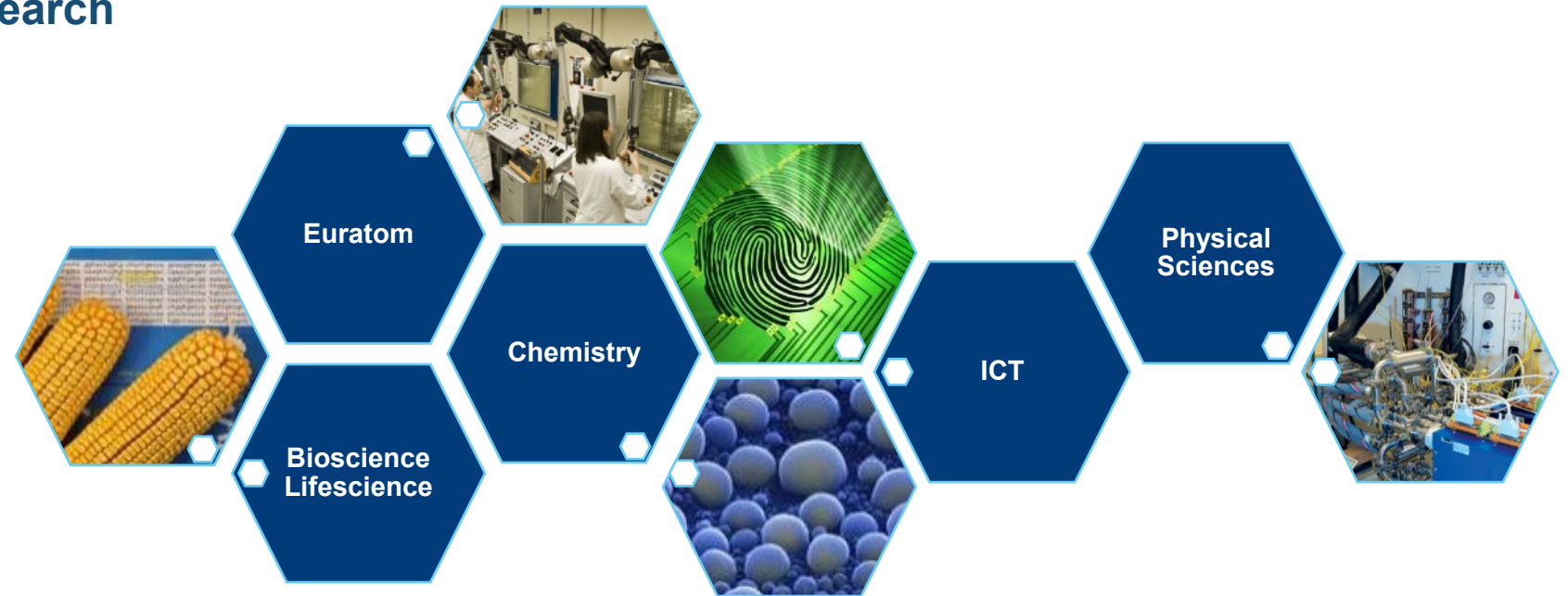
Competence Centres complement Knowledge Centres by focusing on **analytical tools which can be applied to any policy area, and by bringing together in one place extensive expertise in this field**

Open Access

Landscape of JRC Research Infrastructures

JRC hosts **53 physical research infrastructures**

- **34** non-nuclear RIs
- **19** nuclear RIs



39 capable of opening to external users

Research Infrastructures opening access

Virtual tour at <https://visitors-centre.jrc.ec.europa.eu/en/media?type=8>

European Laboratory for Structural Assessment (ELSA) (Ispra, IT)

Reaction Wall

HopLab

Consumer Products Safety (Ispra, IT)

Nanobiotechnology Laboratory

Energy Storage Facilities (Petten, NL)

BESTEST – Battery Energy Storage Testing for Safe Electric Transport

FCTEST – Fuel Cells and Electrolyser Testing facilities

GASTEUF – Gas Tank Testing Facility

European research infrastructure for nuclear reaction, radioactivity, radiation and technology studies in science and applications (EUFRAT) (Geel, BE)

GELINA – Neutron time-of-flight facility for high-resolution neutron measurements

HADES – Underground laboratory for ultra-low level gamma-ray spectrometry

MONNET – Tandem accelerator based fast neutron source

RADMET – Radionuclide Metrology laboratories

Actinide User Laboratory (ActUsLab) (Karlsruhe, DE)

PAMEC – Properties of Actinide Materials under Extreme Conditions

FMR – Fuels and Materials Research

HC-KA – Hot Cell Laboratory

Laboratory of the Environmental & Mechanical Materials Assessment (EMMA) (Petten, NL)

LILLA – Liquid Lead Laboratory

SMPA – Structural Materials Performance Assessment Laboratories

AMALIA – assessment of nuclear power plants core internals

MCL – Micro-Characterisation Laboratory

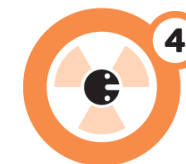
Since 2017, 17 RIs have opened access to external users at the JRC sites of Ispra, Karlsruhe, Petten and Geel:



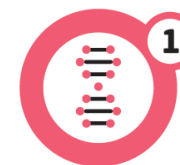
EUFRAAT, GEEL



ACTUSLAB, KARLSRUHE



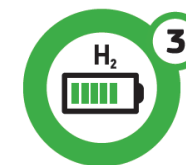
EMMA, PETTEN



NANOBIOTECH, ISPRA



ELSA, ISPRA



ENERGY STORAGE, PETTEN

Framework for Access

Based on the [Charter of Access to RIs of DG RTD](#)

Principles and guidelines when defining Access policies for RIs

Access Modes

- **Relevance-driven**
 - **Peer-review selection** following a call for proposals: Scientific implementation, collaboration and access to new users, strategic relevance to the JRC, strategic importance for Europe
 - Mainly targeted to **academia** and **research institutions**, as well as to **SMEs**
 - Users charged the **additional costs** (around 1/8 of the total); nuclear RIs free of charge – Users pay for consumables
 - Open dissemination after an 18 month embargo period
- **Market-driven**
 - Selection by the JRC
 - Mainly targeted to industry
 - Users charged the full costs
 - Data not disseminated via open schemes



Dedicated portal at EU Science Hub

- **All supporting documents:** Framework and related annexes (template for proposals, agreement documents, IP rules, etc.)
- **Eligibility Criteria**
- **Call for proposals per Research Infrastructure**
 - ✓ Estimated total number of Access Units allocated to the call
 - ✓ Average number of Access Units per project
 - ✓ Estimated additional costs per Access Unit
 - ✓ Priority topics of the Research Infrastructure
- **Selected Projects**
- **User Access Report** / link to databases (after embargo period)



<https://ec.europa.eu/jrc/en/research-facility/open-access>

Croatian entities in the Open Access programme

- From 2017 to 2025, more than 8 researchers from Croatia accessed the JRC research infrastructures:
 - From nuclear to nanobiotechnology
- 14 people attended trainings in the Capacity Building sphere in the same period

Collaborative Doctoral Partnerships

CDP Mission

The CDP programme aims to strengthen the collaboration between the JRC and its academic partners, and to train a new generation of researchers in science and technology with a focus on the science-policy interface

CDP Features

Split time between
the JRC and the
University

PhD project on
the **science-policy**
interface and multi-
disciplinary
research

**Intellectual
Property** owned by
the university

Dual supervision,
both from the
university and the
JRC

Access to the
CDP network for
PhD researchers
and supervisors

Joint activities
such as scientific
seminars,
publications,
teaching

More information available at
[Collaborative Doctoral
Partnership programme -
The Joint Research Centre:
EU Science Hub](#)

Or reach out to:
JRC-CDP@ec.Europa.eu

CDP History

- **2016** First CDP Call for Expressions of Interest
 - 20 Higher educations institutions
 - 20 CDP graduates
- **2020** Second CDP Call for Expressions of Interest
 - 21 Higher educations institutions
 - 53 CDP graduates
- **2025** Third CDP Call for Expressions of Interest
 - 22 Higher educations institutions
 - 24 Future CDP graduates
- **2026** New Call for Expressions of Interest launched in June
 - Deadline for application 25 September
 - More information at [2026 Call for expressions of interest: Collaborative Doctoral Partnership programme - Joint Research Centre](#)

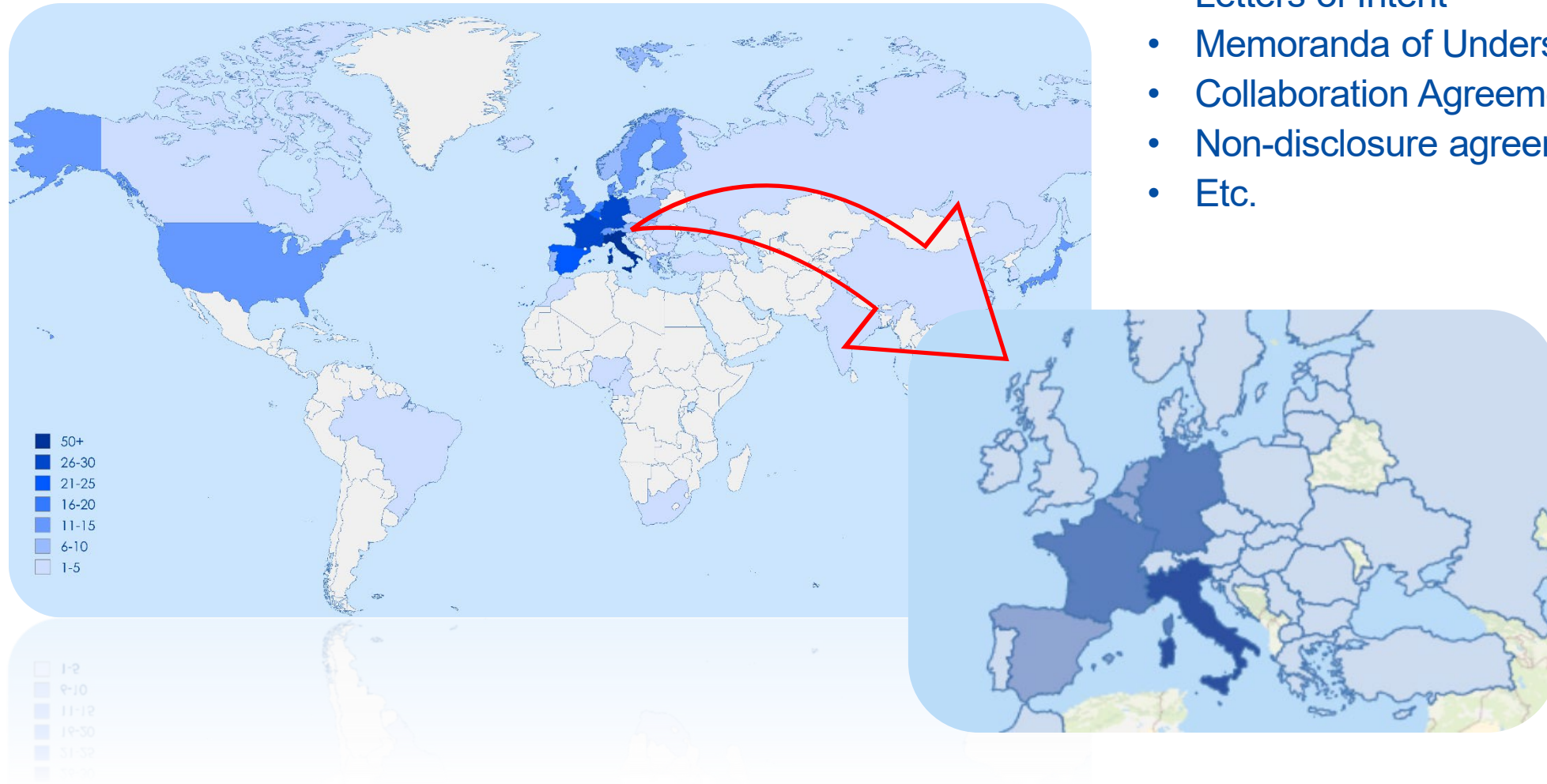


CDP Partnerships with HEIs across Europe

Collaboration instruments

Collaboration Instruments

- Letters of Intent
- Memoranda of Understanding
- Collaboration Agreements
- Non-disclosure agreements
- Etc.



Examples of successful cooperation between JRC and Member States

Technical cooperation – nuclear

- **Inauguration of the Surface Science Laboratory Station (SSLS) at the Institute of Physics, Czech Academy of Sciences**
 - For the first time, the JRC relocated its SSLS to the Czech Republic. This unique 7-metre facility, key to hydrogen and nuclear research for over 15 years, will ensure continued access to world-class infrastructure while serving as a pilot model for future JRC-labelled instruments across EU Member States.
 - This initiative enhances the added value of cooperation by expanding access to high-level research infrastructure, strengthening national research capacities, promoting knowledge transfer, and creating a scalable model for future EU-wide infrastructure sharing.

Technical cooperation – non-nuclear

- **Collaboration Agreement between the JRC and Cracow University of Technology**
 - It establishes a framework for joint pre-normative research in sustainable transport, energy storage, water, human health, and resilient building structures, leveraging complementary accredited laboratories to support policy making and standardisation.
 - It creates added value by enabling mutual access to research infrastructures and JRC user facilities, fostering knowledge transfer, strengthening research capacities, and jointly developing advanced methods and models to support policy and standardisation.

Thank you for your attention

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EU Science Hub – Joint Research Centre



EU Science, Research and Innovation



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